7 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

Respectfully submitted,

Unitellus Site Strategies, Inc.

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Principal



Phase I Environmental Site Assessment

Former H.H Robertson Company Ambridge Division Plant Suite 415 19th Street Lot A1 and A-3 Robertson Ceco Corp PI#1 Ambridge, PA

Portion currently owned by Robertson Ceco Corp.

Prepared for:

- · Beaver County Corporation for Economic Development
- Ambridge Borough
- · Harmony Township

Prepared by:

Unitellus Site Strategies, Inc. Pittsburgh, PA

Date: 09/24/2003 Project n. 03-101

Report

PHASE I ENVIRONMENTAL SITE ASSESSMENT

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Ambridge Division Plant
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Corp PI#1
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Portion currently owned by Robertson Ceco Corp

PROJECT N. 03-101 SEPTEMBER 24, 2003

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1 INTRODUCTION

Ambridge Borough and Harmony Township collaborated with The Brownfields Center at Carnegie Mellon University, Beaver County, Ambridge Regional Center and the Beaver County Corporation for Economic Development (CED) in a preliminary plan for future development of the brownfield sites. The Borough and the Township identified 15 properties for evaluation by way of Phase 1 Environmental Site Assessment (ESA). Funding for same was obtained through the Pennsylvania Department of Community and Economic Development's Industrial Sites Reuse Program (ISRP).

A Phase 1 ESA, as defined by ASTM Standard E 1527-00, is conducted to permit formulation of an opinion concerning "recognized environmental conditions." The term "recognized environmental conditions" means the presence or likely presence of any hazardous substances or petroleum product on a property, under conditions that indicate an existing release, a past release, or a material threat of a release of these substances into structures on the property or into the ground, ground water, or surface water of the property. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or to the environment, and that generally would not be subject of an enforcement action if brought to the attention of appropriate government agencies.

The following report present the results of a Phase 1 Environmental Site Assessment of the portion of the former H.H. Robertson Company Ambridge Division Plant actually owned by Robertson Ceco Corp., Suite 415 19th Street, Lot A1 and A-3 Robertson Ceco Corp PI#1, Ambridge, PA.

The subject Phase I Environmental Site Assessment has been performed by Unitellus Site Strategies, Pittsburgh, PA, under the direction of Dr. Deborah Lange, Ph.D., PE, and DEE.

2 SCOPE-OF-SERVICE

The assessment was conducted in compliance with the scope and limitations of ASTM Standard E 1527-00 Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process.

The scope of services included the following tasks:

- 1. Historical review of the site, including:
 - Historical Sanborn Fire Insurance Maps review;
 - Historical aerial photographs review;
 - Chain-of-title search of the property at the Beaver County Courthouse
 - Interviews with facility personnel (when and where available);
- Pennsylvania Department of Environmental Protection files review, to obtain information
 about the industrial activity conducted on the property, raw material utilized and waste
 material generated, and about possible site assessment, characterization or remediation
 performed.
- 3. Environmental agencies databases review, to obtain information about the potential for hazardous materials to exist at the site or at properties located in the vicinity (unless noted otherwise) of the site. The computer search was performed by EDR (Environmental Data Resources of Southport, Connecticut), for the entire Ambridge/Harmony industrial corridor and included the following databases:

Federal Sated Database

- NPL: National Priority List. The NPL is a subset of CERCLIST and identifies over 1,200 sites for priority cleanup under the Superfund Program.
- Proposed NPL: Proposed National Priority List.

- CERCLIS: Comprehensive Environmental Response, Compensation and Liability Information System. CERCLIS contains data on potentially hazardous waste sites that have been reported to the U.S. Environmental Protection Agency (USEPA) by states, municipalities, private companies, and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).
- CERC-NFRAP:CERCLIS sites designated No Further Remedial Action Planned.
- CORRACTS: Corrective Action Reports. CORRACTS identifies hazardous waste handlers with Resource Conservation and Recovery Act (RCRA) corrective action activity.
- RCRIS: Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate (RCRIS SQG/LQG), transport, store, treat and/or dispose (RCRIS TSD) hazardous waste as defined by RCRA.
- ERNS: Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

State Standard Databases

- SWF/L: Solid Waste Facilities/Landfill Sites. These records typically contain an inventory of solid waste facilities or landfills in a particular state.
- LUST: Leaking Underground Storage Tank. LUST records contain an inventory of reported leaking underground storage tanks incidents.
- UST: Underground Storage Tanks. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act, and must be registered with the State Department responsible for administrating the UST Program.
- VCP: Voluntary Cleanup Program. VCP records contain sites involved in the Voluntary Cleanup Program.

Federal Supplemental Databases

 CONSENT: Superfund Consent Decrees. Major legal settlements that establish responsibility and standards for cleanup at NPL sites. ROD: Record of Decision. ROD documents mandate a permanent remedy at NPL (Superfund) site containing technical and health information to aid in the cleanup.

 Delisted NPL: NPL Deletions. The National Oil and Hazardous Substances and Pollution Control Act (NCP) establish criteria that the USEPA uses to delete sites from the NPL.

- FINDS: Facility Index System. FINDS contains both facility information and "pointers" to other sources that contain more detail.

 HMIRS: Hazardous Materials Information Report. HMIRS contains hazardous material spills incidents reported to the Department of Transportation (DOT).

MLTS: Material Licensing Tracking System. MLTS contains a list of sites which possess or use radioactive material and which are subject to Nuclear Regulatory Commission (NRC) licensing requirements.

- MINES: Mines Master Index File..

 NPL Liens: Federal Superfund Liens. The USEPA has the authority to file liens against real properties in order to recover remedial action expenditures or when property owner receives notification of potential liability.

 PADS: Polychlorinated Biphenyls (PCB) Activity Database. PADS identifies generators, transporters, commercial storers and/or broker and disposers of PCBs who are required to notify the USEPA of such activities.

 RAATS: RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA and pertaining to major violators.

 TRIS: Toxic Chemical Release Inventory System. TRIS identifies facilities that release toxic chemicals to the air, water, and land in reportable quantities under SARA Title III, Section 313.

 TSCA: Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances include in the TSCA Chemical Substances Inventory List.

 SSTS: Section 7 Tracking System. Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended, requires all registered pesticideproducing establishments to submit a report to the USEPA by March 1st each year. - FTTS:

FIFRA/TSCA Tracking System. FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), TSCA and Emergency Planning and Community Right-to-Know Act (EPCRA).

State or Local Supplemental Databases

- AST:

Aboveground Storage Tanks. This database contains registered ASTs from the Pennsylvania Department of Environmental Protection's listing of Pennsylvania Regulated Aboveground Storage Tanks.

Historical databases

Coal Gas:

Former Manufactured Gas (COAL GAS) Sites. Real Property Scan, Inc. ©, provides the existence and location of Coal Gas sites exclusively to Environmental Data Resources (EDR).

- 4. <u>Site reconnaissance</u> of the property to identify the presence of potential sources of contamination, such as Above or Underground Storage Tanks, PCB transformers, stressed vegetation, areas of soil staining, woodblock flooring, pits, and other manufacturing conditions that could lead to releases and other potential environmentally significant items.
- Interviews with site personnel and/or other persons familiar with the property, related to
 historical ownership, use of the site and historical practices that could have caused any
 environmental impact.
- 6. Report preparation, to describe findings for the Phase I Environmental Site Assessment. Information from Items 1 through 5 above provide the basis for this report.

2.1 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT

A Phase I ESA is conducted to permit formulation of an opinion as to the potential for hazardous material or petroleum products to exist at a site at levels likely to warrant mitigation pursuant to regulations of the Pennsylvania Department of Environmental Protection (PADEP). This report is not a comprehensive site characterization, and should not be construed as such. Opinions relative to potential environmental hazards given in this report are based upon information derived from the most recent site reconnaissance, a review of specific regulatory records and historical sources, and comments made by interviewees. Phase I ESAs, by their very nature, are limited. The most recent site reconnaissance was performed on August, 19th 2003. Recipients of this Phase I ESA Report are herewith advised that the conditions observed by Unitellus Site Strategies are subjected to change. Certain indicators of the presence of hazardous materials or petroleum products may have been latent at the time of the most recent site reconnaissance and may subsequently have become observable. In a similar manner, the research effort conducted for a Phase I ESA is limited. Accordingly, it is possible that Unitellus Site Strategies' research, while fully appropriate for a Phase I ESA, failed to indicate the existence of important information sources. Assuming that such sources actually exist, their information could not have been considered in the formulation of Unitellus Site Strategies' finding and opinions. The information contained in this Phase I ESA report are obtained from sources which Unitellus Site Strategies believes are reliable. Nonetheless, Unitellus Site Strategies cannot and does not guarantee the authenticity or reliability of the information it has relied upon.

3 SITE DESCRIPTION

3.1 LOCATION AND LEGAL DESCRIPTION

The site is located in Ambridge, Pennsylvania, and is divided by the Electrical System Division of CENTRIA industrial site into two areas, here named as CECOS 4 West and CECOS 4 East. CECOS 4 East and West are bordered by CENTRIA industrial site on the South, and 19th Street right of way on the North. CECOS 4 West is bordered with a parcel owned by the Ambridge Borough Water Authority on the West, and CECOS 4 East eastern boundaries are Oak Street and a residential area.

The total property currently owned by Robertson Ceco Corp. measures about 2 acres, and was part of the former H.H. Robertson Galbestos Manufacturing Facility.

FIGURE 1 and FIGURE 2 provide the approximate location of the site; the first is a 1993 aerial photograph, the second is the USGS 7.5 minute topographic map.

3.2 PHYSICAL SETTING REFERENCES

3.2.1 Review of Topographic Maps

The United States Geologic Survey (USGS) 7.5 minute Topographic Map for the Ambridge, Pennsylvania quadrangle (photorevised in 1990) was reviewed to provide information about the topography of the site. According to the map, the subject property has an elevation of approximately 760 feet Above Mean Sea Level (MSL).

3.2.2 Regional Geology

The site is underlain by Late Pleistocene unconsolidated sediments along the Ohio River, that originated from glacial outwash. Based on regional information, the bedrock at the site is assumed to be interbedded Pennsylvanian-age sandstone, shale, siltstone, and thin limestone of the Conemaugh Group (SE Technologies, 2002).

3.2.3 Site Soils

Soils at the subject property belong to the Urbanland-Arents complex (Ub). This soil series typically is situated on flood plains, terraces and uplands mostly along major waterways and highways. The Urbanland-Arents complex is approximately 50% Urban land, 40% Arents soils, and 10% other soils. Urban land is defined as land that has been altered by natural forces, cutting and filling, or obscured by building and pavement to the point that original soils cannot be identified. The Arents soils are generally found in areas where cuts and fills were made to reshape the surface. This material consists of heterogeneous earthy material, rock fragments, and parts of other soils. Depth to bedrock in the vicinity varies from 12 to greater than 50 feet below the surface. Permeability, available water capacity, runoff, internal drainage and reaction are variable in the Urbanland-Arents complex. The variability of this unit necessitates on-site investigation in order to determine its potential and limitations for proposed uses (Baker Environmental Inc., 1992).

3.2.4 Regional Hydrogeology

Regional groundwater flow along the Ohio River Valley is toward the river. The groundwater elevation within the alluvial aquifer is generally controlled by the pool elevation along the Ohio River. Due to the vertical relief between the Ohio River Valley and adjacent hillsides of approximately 400 feet, the Ohio River Valley is interpreted to represent a regional groundwater discharge zone. Groundwater flow paths within the alluvial aquifer and the underlying bedrock is interpreted to be upward (SE Technologies, 2002).

4 RECORDS REWIEW

4.1 HISTORICAL REVIEW

4.1.1 Historical operation information

The Ambridge Plant of H.H. Robertson Company produced Steel Building Products.

The industrial activity consisted in various process lines:

- a Steel Galvanizing Line,
- a Coil Coating Line,
- a Polyurethane Foam Panel Line
- several Steel Roll lines.

The Galvanizing Line used black or raw steel coils as raw material. The preparatory process included metal cleaning and treating operations. A surface zinc coating was then applied for corrosion prevention. The wastes generated in this process were detergents, alkalis and acids used in the cleaning and treatment of steel. The wastes or spills were collected into a sump tank from which they were pumped to a Waste Water Treatment Plant, where they were neutralized and the metals precipitated. The precipitate was disposed.

The operations conducted at the Coil Coating Line were treating and painting galvanized coils for the use in pre-fabricated steel products. The coating process consisted in pushing galbestos in galvanized sheets through a high pressure process, then submersing into an asphalt bath to fill the voids and coat the fibers. In the 1980's, the Versacor Swedish process was introduced at the property. The new process used epoxy coating on galvanized steel instead of galbestos. The wastes generated from this line consisted also of acid and alkalis for steel treatment, which were collected into a sump and then processed at the Waste Water Treatment Plant. In addition, the painting operation generated waste solvents. The residual from painting operations was separated

into liquid and solid wastes, labeled as hazardous material and sent to an outside disposal company.

The subject site consists in the northeastern and northwestern part of former Ambridge Plant of H.H. Robertson. At the moment the site is inactive. The property on the south, the site of the former galvanizing line, is owned by 14th Street Corporation and leased to CENTRIA. Between CECOS 4 East and West sits now the Electrical System Division of CENTRIA.

4.1.2 Historical Sanborn Fire Insurance Maps review

Historical Sanborn Fire Insurance Maps for the years 1923, 1931, 1948 and 1959 were reviewed with the purpose of:

- a) identifying past land uses at the subject property and the surrounding areas;
- b) look for information of environmental concern which may have been indicated on the maps.

APPENDIX A contains copies of these maps.

In the 1923 map the subject property, the site located between CECOS 4 East and West and the southern adjoining property is grouped as "Central Tube Company, Manufacturers of Steel Galvanized Pipe and Conduit". On the northern border the map shows the note "19th Street not open".

The 1931 map shows the subject property, the site located between CECOS 4 East and West and the southern adjoining property grouped as "Central Tube Company, Manufacturers of Steel Galvanized Pipe and Conduit". This property is bordered on the north and west by industrial areas, labeled "Wyckoff Drawn Steel Co." and "Spang Chalfant Co.". On the southern boundary there is an industrial area labeled as "H.H. Robertson Company, Manufacturers of Building and Roofing Material".

The 1948 map shows the former Central Tube Company, which included the subject property, and H.H. Robertson Company grouped as "H.H. Robertson Company, Manufacturers of Building

and Roofing Material". Land use on the adjoining properties appears relatively unchanged from the 1931 map.

The 1959 map does not show relevant changes in land use on subject site or on adjoining properties from the 1931 and 1948 maps.

4.1.3 Historical aerial photographs review

Aerial photographs of the site were reviewed for the years 1963, 1969, 1975, 1988 and 1993. The purpose of reviewing aerial photos was to identify past events and land use of potential environmental concern (e.g. storage of hazardous material, dumping, mining activities). APPENDIX B contains copies of these photographs.

All photographs show land use patterns similar to the present use. The adjacent properties located on both the north and south side of the subject site appear to be industrial areas. Small industrial and residential areas are located on the west side of the site, while a residential area is located on the east side. No changes in land use of surrounding properties were noted from the aerial photos review.

4.1.4 Chain of title information

A summary of the deed search results for the site is shown on **TABLE 1**. The information shows that previous owner of the site included National Supply Co.

4.2 Pennsylvania Department of Environmental Protection files review

The research on relevant files from the Southwest Regional Office of Pennsylvania Department of Environmental Protection has shown records regarding a general description of the industrial activity conducted at the former H.H. Robertson Company Ambridge Plant, raw material utilized, waste material generated and approximate storage location. The registered waste materials inventory includes waste water sludge, bag house dust, paint sludge, polyol, MDI and Methylene Chloride. Wastes from galbestos production have been eliminated since October 1983.

No backup information has been found on underground storage tanks, and neither on environmental violation reported. No records were found regarding site assessment, characterization or remediation actions on the subject property.

4.3 ENVIRONMENTAL AGENCIES DATABASES REVIEW

The results of the environmental records search performed by EDR for the entire Ambridge/Harmony industrial corridor are included in APPENDIX C. The basic information from the database printout was extracted and summarized in TABLE 2.

The information shows that the former HH Robertson is included in the database as a Facility Index System (FINDS) site and a RCRIS large quantity hazardous waste generator. The adjacent CENTRIA site is included in the AST database for a tank of hazardous substances currently in use.

5 SITE RECONNAISSANCE

5.1 METHODOLOGY AND LIMITING CONDITIONS

Deborah A. Lange, Ph.D., PE, and DEE performed two site visit. The first site reconnaissance was made on June 25th 2003, and the second one, which was confirmatory, on August 19th 2003. The methodology used during the site visits consisted of a site walkover. George Michaels, shareholder in 14th Street Corporation, accompanied Dr. Lange during both the site visit. Mr. Michaels started with HH Robertson in 1966. Dr. Lange photographed the site as appropriate, and the photos are included in **APPENDIX D**.

5.2 GENERAL SITE SETTING, EXTERIOR AND INTERIOR OBSERVATIONS

The subject property was part of the former H.H. Robertson Company, which produced Steel Building Products. At the moment, both CECOS 4 East and West area are inactive.

5.2.1 Hazardous substances in connection with identified uses

Former H.H. Robertson has been registered as a large quantity hazardous waste generator. From the site reconnaissance no evidence of hazardous material storage was observed.

5.2.2 Indicators of hazardous materials releases

From the site reconnaissance no indicators of hazardous materials releases was observed.

According to Mr. Michaels, CECOS 4 East site was formerly an acid lagoon, used to held spent sulfuric acid from the galvanizing line. Later, the exhausted acid was held in a concrete Aboveground Storage Tank on the south western edge of the property, and sludge from the waste water treatment plant was disposed in the former acid lagoon. Mr. Michaels could not remember any assessment nor remediation action on the acid lagoon.

5.2.3 Storage tanks

During the site reconnaissance some concrete debris were founded on CECOS 4 East site, which according to Mr. Michaels, should be derived from the former Aboveground Storage Tank demolition.

5.2.4 Indications of Polychlorinated Biphenyls (PCBs)

No indications of PCBs were apparent during the site reconnaissance.

5.3 INTERVIEWS

Deborah A. Lange, Ph.D., PE, and DEE interviewed, during the site reconnaissance George Michaels, shareholder in 14th Street Corporation and David L. Haney, Aftermarket Technical Director of CENTRIA – Electrical System Division.

Mr. Michaels told that the property where CENTRIA sits, located on the southern border of the subject property, is owned by 14th Street Corporation, which had purchased it from H.H. Robertson after environmental assessment and remediation. Formerly, the H.H. Robertson galvanizing line was located on the current 14th Street Corporation area. Some tanks containing sulfuric acid and some transformers with PCB, which had reported some spills, were observed at that site.

After environmental assessment, contaminated surface soil and transformers were removed. Two groundwater monitoring wells were also installed, but no groundwater contamination was found. Phase I Environmental Site Assessment on 14th Street Corporation property turned up galbestos, but Mr. Michaels described it as non friable and cryosotile (longer fibers), therefore not as threatening.

Mr. Haney showed the Electrical System Division of CENTRIA border, which included, according to him, also a portion of the present 19th Street right of way.

6 CONCLUSIONS AND RECOMMENDATIONS

Based on the site reconnaissance, interviews and record searches, Unitellus Site Strategies noted the presence of recognized environmental conditions in connection with the site, as follows:

- CECOS 4 East was, according to the interview, formerly an acid lagoon used to held spent sulfuric acid from the galvanizing line of the H.H. Robertson plant;
- The aboveground storage tank later used to held the exhausted sulfuric acid from the galvanizing line has been removed, but no backup information was found on the demolition and the content disposal;
- CECOS 4 East was used, according to the interview, also to held sludge from the waste water treatment plant, and but no backup information was found on site assessment nor remediation.

Given the above considerations, Unitellus Site Strategies recommend a Phase II Environmental Site Assessment to determine if any of the recognized condition identified has resulted in significant environmental impacts to the property.

7 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

Respectfully submitted,

Unitellus Site Strategies, Inc.

Deborah A. Lange, PhD, PE, DEE

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